

Product Data Sheet

Product Name: Prostaglandin E2-biotin

Cat. No.: GC44719

Chemical Properties

Cas. No. 2641624-60-2

SMILES [H][C@]12[C@](N([H])C(N2[H])=O)([H])CS[C@@H]1CCCC(NCCCCN([H])C(CCC/C=C\C[C@H]3C(C[C@@H](O)[C@@H]3/C=C/[C@@H](O)CCCC)=O)=O)=O

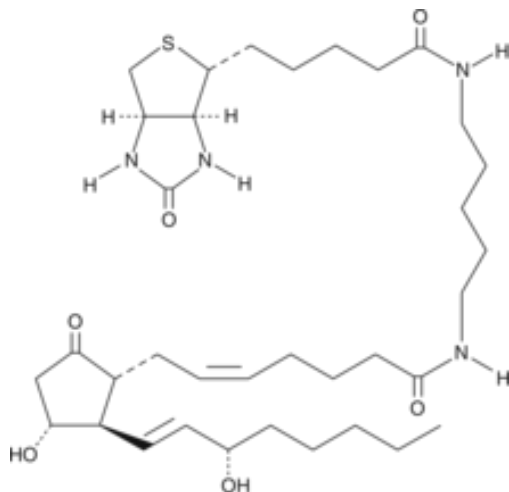
Formula C35H58N4O6S M.Wt 662.9

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 10 mg/ml, PBS (pH 7.2): .1 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Prostaglandin E2 (PGE2) is the major eicosanoid product of cyclooxygenase-1 and 2 in epithelial cells, leukocytes, reproductive tissues, and many others. PGE2 contracts smooth muscle, protects the gastric mucosa, modulates immune function, and regulates fertility and implantation. PGE2 acts through at least four 7-transmembrane G protein-coupled receptors, EP1-EP4. PGE2-biotin is an

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affinity probe which allows PGE2 to be detected through an interaction with the biotin ligand. PGE2-biotin was designed to allow PGE2 to be detected in complexes with transmembrane receptors and/or nucleic acid or protein binding partners. It is thus a tool to be used in the general elucidation of the mechanism of action of PGs.

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